

LEADERSHIP IN SUSTAINABLE PRACTICES

DoD's approach to Sustainability

Federal Network for Sustainability

**NDIA
San Diego, CA
April 2004**



Environmental Stewardship



- ✎ **A healthy and productive environment is a fundamental component of our national power**
- ▮ **Pollution is inherently wasteful**
- ▮ **Sound environmental stewardship is a reflection of the high moral and ethical ideals of our soldiers, sailors, airmen, and marines**



What is DoD's Environmental Program?



- ◆ **Technology**
- ◆ **Cleanup**
- ◆ **Compliance**
- ◆ **Pollution Prevention**
- ◆ **Conservation**
- ◆ **Pest Management**



Future Directions

- ◆ **Environmental Management Systems**
- ◆ **Water**
 - **Waste Water**
 - **Drinking Water**
- ◆ **Greening the Government Executive Orders**
- ◆ **Alternative Fueled Vehicles/Green Power**
- ◆ **Recycling & Affirmative Procurement**



Environmental Management Systems

1 of the Top 3 Priorities for DoD's Environmental Program

- ◆ White House Council on Environmental Quality Priority
- ◆ Office of Management and Budget & Council on Environmental Quality Memo signed April 1, 2002
 - "Federal Government must be a leader"
- ◆ DoD Policy Signed April 5, 2002
- ◆ Military Departments' Policy Issued
- ◆ Not Just an environmental staff responsibility
- ◆ Need to reach out to all functions & missions

Where are you?



Water

Waste Water

- ❑ **Watershed Focus**
- ❑ **Are you in an impaired water watershed?**
- ❑ **What is your contribution to the impacts in the watershed?**
- ❑ **Get involved in the development of the TMDL (Total Maximum Discharge Limit)**

Drinking Water

- ❑ **What was in your last Consumer Confidence Report?**
- ❑ **What is the condition of your infrastructure?**
- ❑ **Have you done your vulnerability assessment?**

Standards are only going to get tighter



Greening the Government Executive Orders

- ★ All are here to stay
- ★ CEQ and OMB Memo
- ★ The President appointed a Federal Environmental Executive to oversee all Greening the Government Executive Orders

1310 1	Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition
1314 8	Greening the Government through Environmental Leadership in Environmental Management
1314 9	Greening the Government through Federal Fleet & Transportation Efficiency

Alternative Fueled Vehicles



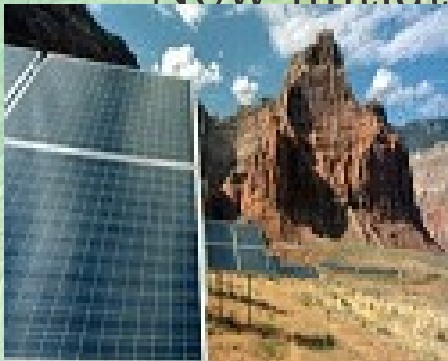
- ◆ High Congressional Interest - Expect the law to tighten
- ◆ Focus is on bio-fuels - E85 (Ethanol) and Biodiesel/Hydrogen
- ◆ Need to examine your infrastructure
- ◆ Vehicles Acquired
 - Examine types of vehicles used
 - Lease best option

Green Power & Alternative



➤ Purchasing electricity and fuels generated from renewable resources, including solar, wind, geothermal, biomass/biodiesel, and landfill gas.

- New initiative underway to aggregate federal demand and facilitate purchases of “green tags” or Renewable Energy Certificates (RECs).
- New initiative under development to aggregate federal demand and facilitate purchases of “green tags” or Renewable Energy Certificates (RECs).



Fu





Recycling & Affirmative Procurement

Solid Waste/Recycling

- ◆ Focus on Reducing solid waste generation, not just recycling
- ◆ Get Involved in Writing Contracts - Construction, Renovation, Solid Waste Management
- ◆ Look at Total Cost of Solid Waste Management

Affirmative Procurement

- ◆ Need to focus on awareness & training
- ◆ Lots of Green Products available - Buy Them
- ◆ Revised the DD Form 250 - No More Data Calls!



★ Challenges

- Increasing Regulatory Requirements
- Declining Resources

★ Opportunities

- Environmental Management Systems
- Pollution Prevention to Meet Compliance Requirements
- Best Business Practices
- Improved Efficiencies
- Navy Model



NAVFAC's Integrated Approach of Sustainable Design

Sustainable Systems Management

**Program Goal: The Sustainable
Systems Management Initiative
will support cost effective and
efficient facility development and
operations at Navy installations**



Integrated Approach of Sustainable Design

Sustainable Systems Management

Objectives:

- ☐ Implement Navy and Executive policies/goals
- ☐ Enhance NAVFAC Business Line processes
- ☐ Support cost savings for total operating cost, innovation, and eco-efficiency
- ☐ Track and document benefits
- ☐ Deliver through developing business management system

Drivers: NAVFAC policies, directives, and Executive Orders on sustainable development



Strategic Plan

People Operations Clients Innovation

Business Lines and Processes

Engineering
Environmental
Real Estate
Base Development
Capital Improvements
Base Operations Support

Sustainable Systems Management

Cost saving
Innovation
Eco-efficiency
Metrics and Performance

Business Management System

Organization
Process
Job



Integrated Approach of Sustainable Design

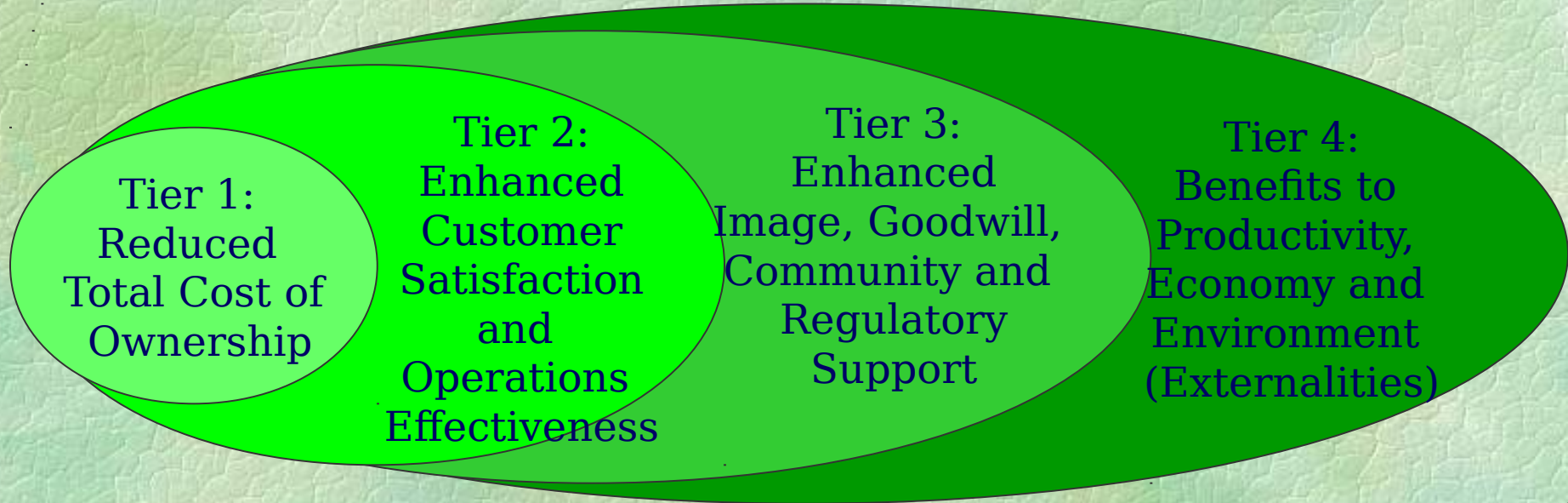
Sustainable Systems Management

- ☐ **Standardized approach to NAVFAC-wide implementation of sustainability**
- ☐ **Web-based tool**
- ☐ **Access to specialized expertise**
- ☐ **Focal point for regional and national alliances**
- ☐ **Raise NAVFAC visibility as sustainability leader**
- ☐ **New strategies and innovation**
- ☐ **Facilities SD Performance DATA ...**



Integrated Approach of Sustainable Design

Sustainable Systems Management Benefits - Both Quantifiable and Intangible



**Most Tangible to Least Tangible
Increasing Measurement Difficulty**



NAVFAC

Sustainable Development Program

- ☐ Initiated in 1993 - ASN Desire to be more Environmentally Responsible
- ☐ Extensive Industry Involvement and Cooperation
- ☐ Field-Based Workshops Started in 1995
- ☐ Pilot Project Program Started in 1995
- ☐ Revolutionary Changes in NAVFAC's Policies, Criteria and Procurement Practices - 18 June 1998
 - Policy on Design
 - Policy on Criteria
 - Policy on Procurement of A-E Services & Design-Build



NAVFAC

Sustainable Development Policy

- ❑ **PDPS 98-01, Design of Sustainable Facilities and Infrastructure**
 - Incorporate sustainability principles in all projects
- ❑ **PDPS 98-02, Criteria Supporting Design of Sustainable Facilities**
 - Utilize industry-recognized standards, codes, criteria and other guidance in support of sustainable design
- ❑ **PDPS 98-03, Procurement of Sustainable Facilities - AE Contracts**
 - Select A-Es with sustainability knowledge and experience



NAVFAC's Sustainable Development Policy

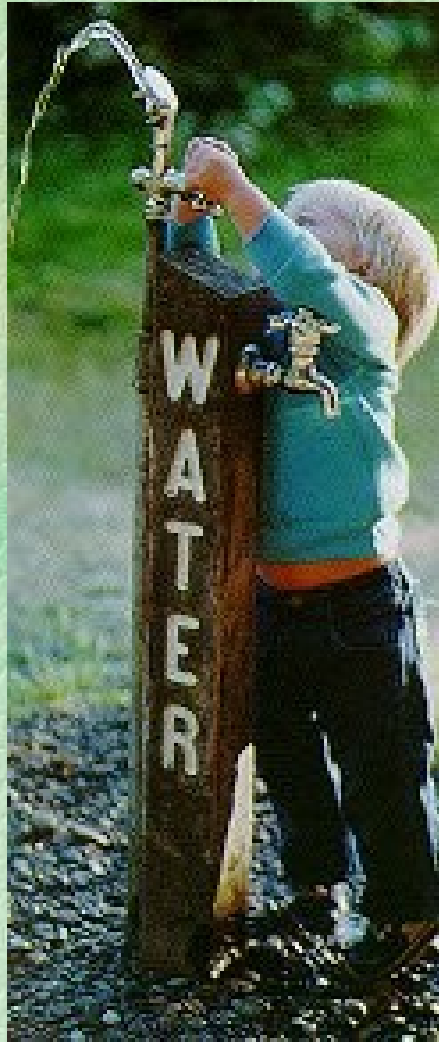
Sustainable Development

- Site
- Water
- Energy
- Materials
- Indoor
Environmental
Quality



Site Resources

Landscape, Water, Transportation



Energy

Form and Envelope, Systems, and Renewable Energy



Building Form and Envelope

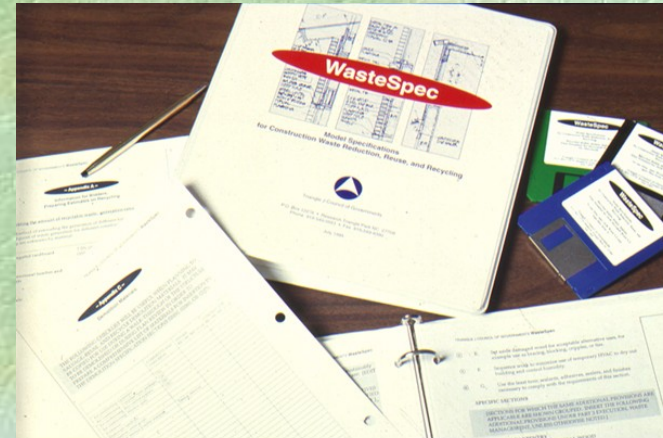
selective pathway

**to take advantage of
natural energy flows and
minimize undesirable
thermal transfer.**



Materials

Environmentally Preferable Materials, Waste, Recycling, Operations & Maintenance



Indoors

Health, Air, Thermal Comfort, Connection to Nature, Visual Quality



Integrated Solution:

High Performance Facilities with Economic Optimization



Process: In the Military

🦋 Procurement

- A+E Selection

☐ RFP

Requirements

- Criteria (LEED?)

☐ Contracts

- Design/Build

☐ Form DD 1391

☐ Value

Engineering

☐ DOD Sustainable Design Training



Greening of the White House

Charrette

🐸 Site

- Envelope
- Materials
- HVAC
- Lighting
- Operations



Greening of the Pentagon





Greening Kāne'ohe Bay Marine Hawa



Tools: Building Rating Systems

U.S. Green Building Council's LEED Rating System

- **Army's SPIRIT**
- **Energy Star**
- **Green Building Challenge**
- **Local systems**
 - **Boulder & Austin**



**Green Building
Rating System™**

Version 2.0

Leadership in Energy
and Environmental Design



March 2000

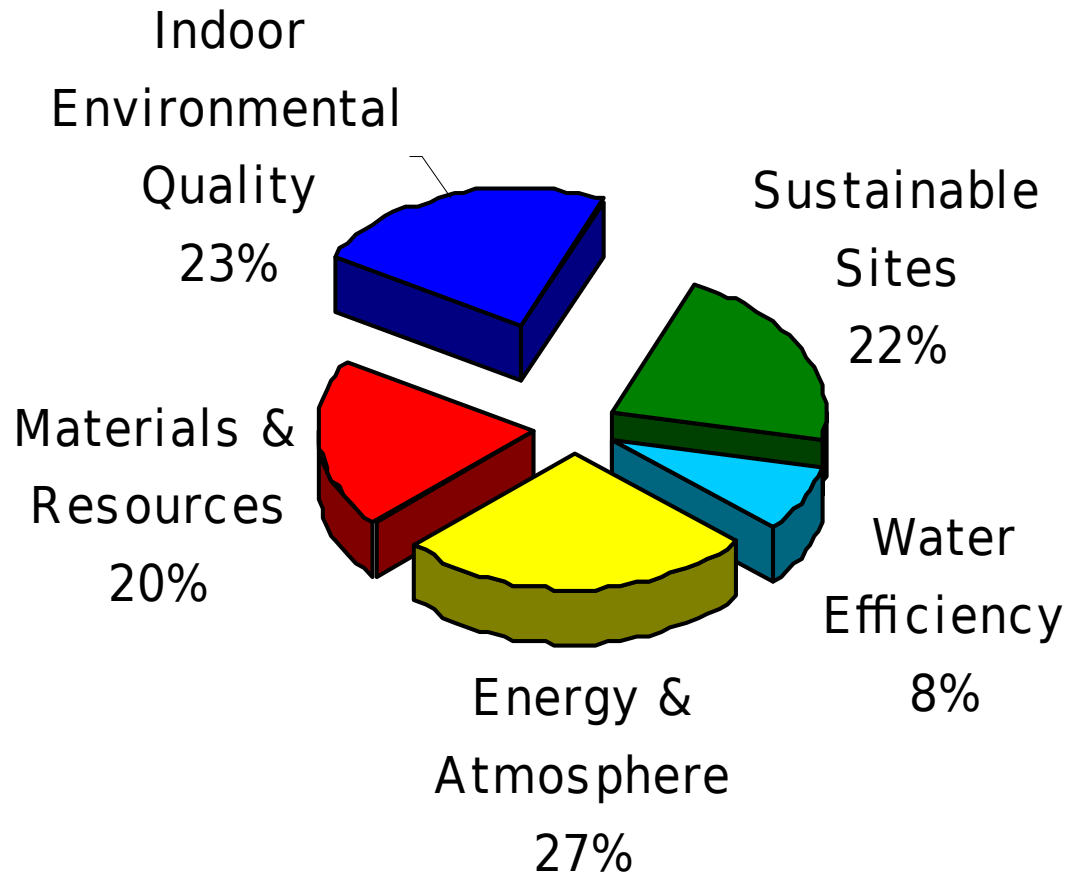
U.S. GREEN BUILDING COUNCIL



LEED™ Approach

- ☛ Can be used as a checklist
- ☐ Promotes Integrated Design
- ☐ Provides quantifiable/realistic goals and targets
- ☐ Contains prerequisites and credits
- ☐ Encourages innovation and design integration

LEED Points Distribution





Federal Network for Sustainability

**Demonstrating
Federal Leadership in the
Western United States**

Statement of Unity Signed Earth Day, 2000

Signed by the western regional offices of these agencies:

- ☐ EPA, 2 Regions
- ☐ NPS, 3 Regions
- ☐ GSA, 2 Regions
- ☐ US Navy
- ☐ US Air Force
- ☐ US Army
- ☐ US Army Corps of Engineers
- ☐ US Dept. of Energy
- ☐ BPA
- ☐ NASA
- ☐ US Postal Service
- ☐ Office of the Federal Environmental Executive, White House

Statement of Unity Earth Day April 22, 2000

Sustainability is emerging as a principal theme of the new millennium. The 30th anniversary of both Earth Day and the creation of the Environmental Protection Agency provide the symbolic context linking America's past environmental performance to our future needs. Moreover, a series of key milestones over these thirty years:

- National Environmental Policy Act, 1969
- United Nations Conference on Environment and Development, 1992
- Rio Declaration and Agenda 21, 1992
- President's Council on Sustainable Development, 1996, 1999
- National Energy Policy Act of 1992

along with a host of new laws, Presidential Executive Orders, regulations, policies, and Federal Agency initiatives, all give rise to the compelling opportunity for demonstrating Federal leadership on sustainability.

Sustainability is basically a concept about the *interconnectedness* of the environment, the economy, and social equity. It is a journey - a path forward - through which we demonstrate responsibility for our future legacy. It is a vision - an aspiration - for a better life for our children and our children's children.

The various missions of the Federal Agencies give concrete expression to the concept of sustainability through our individual programs and initiatives and through our collective leadership values. We demonstrate sustainable practices within the Federal sector and thereby promote and facilitate state and local action and positive performance by the private sector. As public entities working to advance the public interest, Federal Agencies through leadership and example can inspire all of society to advance an agenda for sustainability.

We are therefore creating a collaborative network of Federal Agencies, initially focused in the Pacific region, to be known as the *"Federal Network for Sustainability"*. We envision an open network in which all parties can flourish and work together. We acknowledge and validate the good works of others, and embrace their contributions in an open and growing collaboration. The Network is expected to grow and expand over time as new linkages are established. Other interested Federal Agencies are encouraged to participate and become signatories. The Network will also be "virtual" as we seek to use the Internet for communication and public access.

- The *Federal Network for Sustainability* intends to focus its efforts in the following areas:
- Develop and coordinate the network.
 - Create and manage an information sharing clearinghouse.
 - Develop and deliver training for network members.
 - Communicate ideas through conferences and meetings.
 - Seek linkages and partnerships.
 - Showcase sustainable programs and projects.
 - Act as a catalyst for change.

In the spirit of Earth Day 2000, the *Federal Network for Sustainability* shall be operational upon the signatures set forth below.

Original Signatories in 2000:

Robert D. Barker, Regional Director Alaska Region, National Park Service, **Chuck Carter**, Regional Administrator US EPA Region 10, **Paula L. Johnson**, Administrator and Chief Executive Officer, Bureau of Reclamation, **Bruce Rydman**, Regional Administrator, General Services Administration, **Patricia Maxwell**, Regional Administrator, US EPA Region 9, **Thomas Todd McCall**, Deputy Assistant of Air Force, Environment, Safety and Health, **Blair L. Marshall**, Deputy Assistant Secretary of State, Environment and Energy, **E. Jay Ramsey**, **John W. Harte**, Director, National Park Service, **William J. Gorman**, Director, Bureau of Reclamation, **Charles R.E. Phillips**, Chief, Southwest National Environmental Engineering Center, National Park Service, **John W. Harte**, Director, National Park Service, **John J. Reynolds**, Regional Director, Pacific West Region, National Park Service, **Kenn Wade**, Regional Director, Intermountain Region, National Park Service.

Continuing and new signatories added in 2001:

Sam V. Davis, Director, Seattle Regional Office, U.S. Department of Energy, **John Reynolds**, Regional Director, Pacific West Region, National Park Service, **Kenn Wade**, Regional Director, Intermountain Region, National Park Service, **Chuck Carter**, Regional Administrator, US EPA Region 10, **Robert D. Barker**, Regional Director, Alaska Region, National Park Service, **Paula L. Johnson**, Administrator and Chief Executive Officer, Bureau of Reclamation, **Bruce Rydman**, Regional Administrator, General Services Administration, **Patricia Maxwell**, Regional Administrator, US EPA Region 9, **Thomas Todd McCall**, Deputy Assistant of Air Force, Environment, Safety and Health, **Blair L. Marshall**, Deputy Assistant Secretary of State, Environment and Energy, **E. Jay Ramsey**, **John W. Harte**, Director, National Park Service, **William J. Gorman**, Director, Bureau of Reclamation, **Charles R.E. Phillips**, Chief, Southwest National Environmental Engineering Center, National Park Service, **John W. Harte**, Director, National Park Service, **John J. Reynolds**, Regional Director, Pacific West Region, National Park Service, **Kenn Wade**, Regional Director, Intermountain Region, National Park Service.

Signatories in 2002:

John J. Reynolds, Regional Director, Pacific West Region, National Park Service, **Chuck Carter**, Regional Administrator, US EPA Region 10, **Robert D. Barker**, Regional Director, Alaska Region, National Park Service, **Paula L. Johnson**, Administrator and Chief Executive Officer, Bureau of Reclamation, **Bruce Rydman**, Regional Administrator, General Services Administration, **Patricia Maxwell**, Regional Administrator, US EPA Region 9, **Thomas Todd McCall**, Deputy Assistant of Air Force, Environment, Safety and Health, **Blair L. Marshall**, Deputy Assistant Secretary of State, Environment and Energy, **E. Jay Ramsey**, **John W. Harte**, Director, National Park Service, **William J. Gorman**, Director, Bureau of Reclamation, **Charles R.E. Phillips**, Chief, Southwest National Environmental Engineering Center, National Park Service, **John W. Harte**, Director, National Park Service, **John J. Reynolds**, Regional Director, Pacific West Region, National Park Service, **Kenn Wade**, Regional Director, Intermountain Region, National Park Service.

Why 'Sustainable'



- ✎ Creates a Long Term Approach to environmental protection and process improvements
- ▢ Prevents Pollution from the start
- ▢ Calls for Systems Thinking, (e.g. the interconnectedness of the economy, environment, social and national security concerns).
- ▢ Helps identify a Strategy or Framework
- ▢ Leverages Scarce Resource\$

Purpose of the Federal Network for Sustainability

- 🐘 Leadership!
- ❑ Develop and Coordinate Network
- ❑ Create and Manage an information-sharing clearinghouse
- ❑ Develop and Deliver training for network members



Purpose of the Federal Network for Sustainability,

Cont. Communicate Ideas through conferences and meetings

- Seek Linkages and Partnerships
- Develop and Showcase Sustainable Programs
- Act as a Catalyst for Change



FNS Members Tim Scanlon (BPA), Steve Butterworth (NPS), & Curtis Framel (DOE) at the Lake Mead Entrance Station

Primary Area of Focus



- Using the Power of Government as Consumer!
The United States government is the world's **largest** purchaser of consumer products and services.



Five Initiatives of FNS...



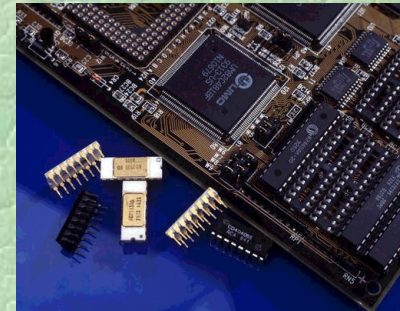
- Copy Paper

- Sustainable Buildings



- Electronics Stewardship

- Initiating EMS



- Purchasing Green Energy /
Alternate Fuels

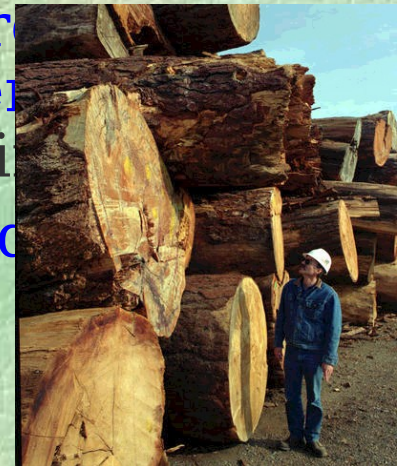


Greener Copier Paper Initiative

Why Paper - It's Everywhere!

- 42% of wood harvested goes to making paper
- 10,000 sheets of copy paper is used by an average worker yearly

- In 1997, the Federal Government purchased roughly 18.1 billion sheets
- Indirect costs for paper can exceed initial costs by 10x
- The Pulp and Paper industry is the 2nd largest consumer of energy and uses more water to produce a ton of product than any other industry
- Paper accounts for 38% of municipal solid waste generated annually in the US



Greener Copier Paper Initiative

Goals and Progress.

- Raise awareness of environmental issues concerning copier paper
- Create the capability to reduce copier paper use
- Make greener paper more available and less costly
- Make green purchasing easy to implement
- Generate meaningful and measurable results that others can replicate, e.g. six agencies converting to greener paper



Electronics Stewardship Initiative

- ✎ Federal government is the world's largest consumer spending
 - \$200 billion annually in direct purchases, a portion of which is electronics
 - \$240 billion annually in grants, a portion of which is electronics
- Only about 5% of electronics are currently recycled.
- Contain toxic materials, are hard to recycle, and are the fastest growing waste stream.



What Can Be Done About Electronics Stewardship?



Product Stewardship:

- Manufacturer responsibility
- Greener Design from the start
- Environmental costs incorporated into purchase price



Green Purchasing

- Include end of life costs in the purchase
- Don't purchase if you don't need it
- Leasing as an alternative
- Up-gradability, reparability

Goals of FNS Electronics Initiative:

- ✎ Working to develop greener purchasing specifications.
- Coordinating among federal agencies to promote greener use and end-of-life management of electronics
- Working with the White House Task Force on Recycling to support the MGR Electronics through pilot projects
- Educating Federal Agencies on greener electronics practices

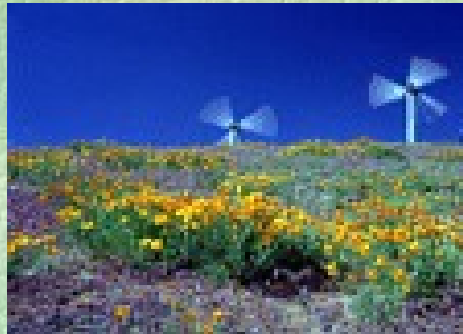


Green Power & Alternative



🐼 **Fuels Initiative** Purchasing electricity and fuels generated from renewable resources, including solar, wind, geothermal, biomass/biodiesel, and landfill gas.

- New initiative underway to aggregate federal demand and facilitate purchases of “green tags” or Renewable Energy Credits
- New initiative under development to promote the purchase of Alternative Fueled Vehicles
- New initiative under development to promote green building design and renewable energy development



Green Power & Alternative Fuels

🌱 FNS has a three-pronged approach to green power:

- On-site development of renewable energy technologies
- Procurement of green power
- Procurement of green tags or “renewable energy credits”

Central Station Wind Facility



Wyoming Wind Project

Geothermal Energy Plant



West Ford Flat Facility, California

Alternative Fuel Vehicles and Hybrids Purchase

FNS is currently developing an initiative to support the purchase of AFV's and Hybrids

- Solidifying partnerships with state and local governments in the west to leverage the buying power of government entities and bring down the cost of AFV's



Environmental Management Systems Initiative - Purpose

- ☛ To fully support Executive Orders
- ☐ Provide Education and Training on EMS principles
- ☐ Share information among federal agencies on experiences learned
- ☐ Promote implementation of EMSs at member agencies

Environmental Management Systems Initiative

Free FNS Co-Sponsored EMS
Development Workshops:

- ☞ May 28-29, 2003, Seattle, WA
- ☐ July 16-17, 2003, San Diego, CA
- ☐ San Francisco, etc.
- ☐ 2004 second round

For more information, go to:

www.FederalSustainability.org

FNS Member Showcase: NASA Integrated Vegetation Management Program

🐼 NASA Ames Research Center developed an Integrated Vegetative Management Program comprised of:

- utilizing native vegetation
- utilizing goats to control “stubborn vegetation”
- adjusting the timing and height of turf mowings
- utilizing the least toxic herbicides which are biodegradable



□ The IVM program has reduced pesticide and herbicide use at the facility by 97%

FNS Member Showcase: Ft. Lewis Installation Sustainability Program



🐼 The Objective – A Sustainable Installation that Supports Sustainable Operations

□ The Approach:

- Begin with Environmental Issues
- Establish Environmental Baseline Document
- Host Environmental Sustainability Workshop (Feb 2002)
 - Involve Stakeholders
 - Establish 25-year goals
- Develop 5-year implementation plans
- Establish Installation Sustainability Board

FNS Member Showcase: Environmentally Preferable Purchasing/Green Meetings

Environmentally
Preferable Purchasing

- 🦋 FNS is highlighting and encouraging agencies to use the US EPA Environmentally Preferable Purchasing (EPP) program resources www.epa.gov/oppt/epp

There are over 27 ongoing/completed Federal projects to learn from numerous product/service categories -- from building materials, to custodial services and office equipment to cleaners FNS members can leverage lessons and expertise to initiate their own projects

- Green Conferences and Travel projects are being developed in consultation with EPA www.epa.gov/oppt/greenmeetings/

Practical Importance of Sustainability

Why Sustainable Design?

- ☛ Buildings consume 30-40% of our total energy and 60% of our electricity
- About $\frac{1}{4}$ of the increase in CO₂ in the atmosphere is due to buildings
- Buildings consume 40% of raw stone, gravel and sand; 25% of virgin wood
- Construction creates 2-2.5 pounds of solid waste per square foot – 30-35% of landfill space is building-generated waste

Practical Importance of Sustainability

Why Sustainable Design?

Sustainable design makes environmental sense and business sense:

- ☐ Reduce environmental impact
- ☐ Reduce operating costs
- ☐ Reduce some first costs
- ☐ Enhance employee health and safety
- ☐ Improve employee productivity
- ☐ Enhances our homeland energy security

Tools:

Building Rating Systems

U.S. Green Building Council's LEED Rating System

- Army's SPIRIT
- Energy Star
- Green Building Challenge
- Local systems
 - Boulder & Austin



Green Building
Rating System™

Version 2.0

Leadership in Energy
and Environmental Design



March 2000

U.S. GREEN BUILDING COUNCIL

Showcase Projects & Awards

MCPON PLACKETT MANOR (BACHELOR ENLISTED QUARTERS)

GREAT LAKES NAVAL TRAINING CENTER, ILLINOIS

NAVFAC Sustainable Development Pilot Project

■ \$65 million

9 buildings - 450,000 sf

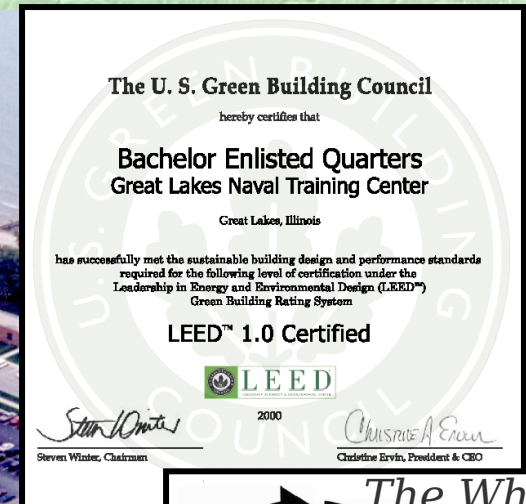
■ Housing for 2250 sailors 3 to 5 stories

■ 15 acre site

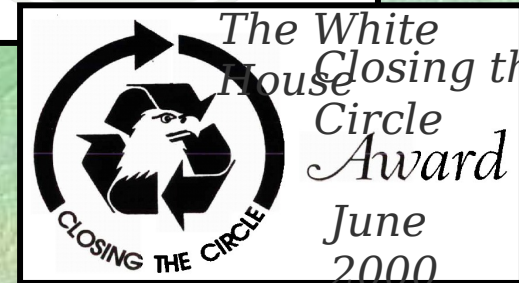
Completed 12/98 - 9/99



2001 Energy Star Showcase Award



2000



Showcase Projects & Awards

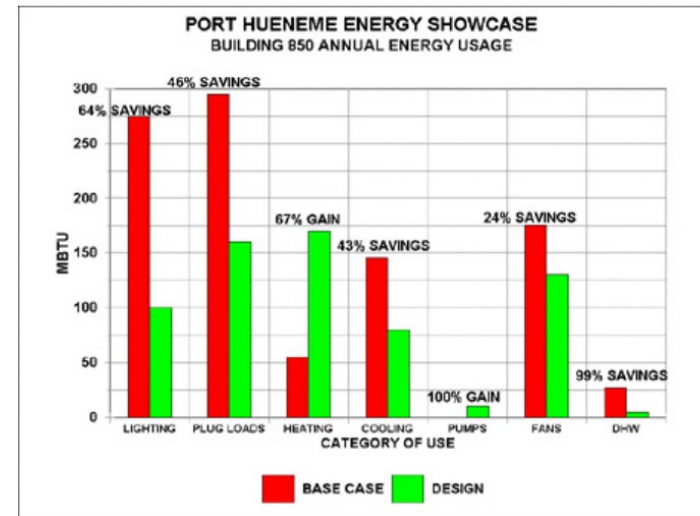
BUILDING 850, NAVY'S ENERGY SHOWCASE FACILITY

Naval Construction Battalion Center, Port Hueneme, CA

Energy Showcase Renovation Project, Completed 5/01
Demonstrating Renewable Energy Technologies,
Environmentally Responsible Design Practices



NAVY'S ENERGY DEMONSTRATION FACILITY



750 kW Photovoltaic System

🐼 NAS North Island

- ❑ One of Largest PV in U.S
- ❑ 1,200 Mwh/yr Energy Savings
- ❑ 205 Metric Tons Carbon/yr Avoided



“Greening” of the Pentagon Summary of Initiatives



- New Heating & Refrigeration Plant and utility distribution system
- State-of-the-art climate control system, tighter thermal building envelope
- Open bay environment improves energy efficiency: air flow, lighting
- Improvements to pedestrian/vehicular traffic
- Greater flexibility for future changes
- Investments in new technology and alternative sources of energy

Upcoming FNS Events:

🐷 Check our website for current list of upcoming events:

www.FederalSustainability.org

LEADING BY EXAMPLE

Report

December 2002

LEADING BY EXAMPLE

A Report to the President on Federal Energy and Environmental Management (2000-2001)



December, 2002

GSA's Federal Recycling Program serves more than 650,000 Federal employees at 1,000 Federal agency locations across the country. In FY 2000, the program recycled 43,400 tons from the Federal office waste stream, an increase of nine percent over the previous year, and generated over \$900,000 of income. GSA sells these recycled materials where markets exist and returns the revenue to the agencies that generated the recyclables. Additionally, GSA realized approximately \$3.7 million in cost avoidance through the elimination of hauling and tipping fees (landfill charges) resulting in lower operating costs for the Federal government and ultimately savings to the taxpayer. Since the program's inception in 1990 to the year 2000, almost 400,000 tons have been recycled, \$6.2 million in income has been generated, and cost avoidance of almost \$26 million has been realized.

The Federal government's growing use of partnering options for the delivery of its programs and services is being successfully incorporated into its waste prevention and sustainable development efforts. These partnerships are designed to facilitate access to new recycling and waste prevention opportunities and enable use of new capabilities and technologies.

A partnership between the Federal Highway Administration (FHWA) and the Recycled Materials Resource Center at the University of New Hampshire provides research and information to reduce the institutional barriers that limit the use of recycled materials in road construction applications. The Center worked closely in partnership with FHWA, the Federal, state, private sector, and environmental and highway associations to increase use of recycled materials in roads, and recently completed research underlying a new national specification for using recycled glass for roadway base courses.



Another innovative partnering effort is the Federal Network for Sustainability (FNS), an alliance of 13 west coast Federal agencies, representing 160,000 Federal employees, who share staff, authorities, and experience to collectively reduce waste, pollution, and energy consumption. The principal goal of the FNS is to use the vast consumer power of the Federal government to promote sustainable practices. Its current efforts are focused on advancing the demand for greener copier paper; helping to influence the market for more sustainable electronic products; purchasing alternative and renewable energy; and implementing environmental management systems.

Another unique partnership is the Federal Electronic Stewardship Working Group (FESWG), which addresses the implementation of better life-cycle management practices for Federal electronic equipment, and the growth of the infrastructure necessary for the reuse and recycling of obsolete electronics. Partnering agencies – including CEQ, DOD, DOE, EPA, the Department of Interior (DOI), and the US Postal Service (USPS) – are working to develop a cohesive national strategy to increase demand for "greener" electronic products and address end-of-life management issues.

Learning by Example: A Report to the President on Federal Energy and Environmental Management (2000-2001)

December 2002, John L. Howard, Jr.
Federal Environmental Executive

“Another innovative partnering effort is the Federal Network for Sustainability (FNS), an alliance of 13 west cost Federal agencies, representing 160,000 Federal employees, who share staff, authorities, and experience to collectively reduce waste, pollution, and energy consumption. The principal goal of the FNS is to use the vast consumer power of the Federal government to promote sustainable practices. Its current efforts are focused on advancing the demand for greener copier paper; helping to influence the market for more sustainable electronic products; purchasing alternative and renewable energy; and implementing environmental management systems.”

Why are We Doing These Things?

☞ RCRA Section 6002

- ☐ Pollution Prevention Act of 1990
- ☐ Energy Policy Act of 1992
- ☐ Federal Acquisition Regulations (FAR)
- ☐ Executive Orders “Greening Government”
- ☐ Individual Agency/Departmental policies
- ☐ Cost savings
- ☐ It’s the Right Thing To Do!

FNS Certificate of



How to Get Involved

- Contact [Al Hurt](mailto:Hurt.Alan.C@asw.cnrsw.navy.mil), FNS Chairman, US Navy at (619) 524-6253, Hurt.Alan.C@asw.cnrsw.navy.mil
- Attend FNS supported Conferences, Meetings and Trainings
- Sign the Statement of Unity
- Join our email listserv
- Tell us your success stories, and we'll help you get the word out to others!

“As public entities working to advance the public interest, Federal Agencies through leadership and example can inspire all of society to advance an agenda for sustainability.”

